

### REMARKS

The Examiner requested information under 37 CFR § 1.105 with respect to the following.

The Office Action states:

(1) A copy of any non-patent literature, published application, or patent (U.S. or foreign), by any of the inventors, or information that was used in the invention process, such as by designing around or providing a solution to accomplish an invention result. In response to this requirement, please provide the title, citation and copy of each publication that any of the applicants relied upon to develop the disclosed subject matter that describes the applicant's invention, particularly as to developing the features of calculating, for financial instruments, a set of financial outcomes using a subset of interest rate scenarios; interpolating, from the sets of financial outcomes, a first function that estimates the aggregate value of the portfolio when sampled at the payments times with an aggregate principal of the portfolio and a first interest rate scenario; providing a second function that estimates a value for a financial instrument from the portfolio when sampled at the payment times using a second interest rate scenario; using an interest rate scenario from the plurality of interest rate scenarios, calculating a value of the second function for each financial instrument in the portfolio and a value of the first function to estimate, respectively, a value for the portfolio and an aggregate value for the portfolio; and forming a control variate based upon the estimated value of the portfolio, the estimated aggregated value of the portfolio, and an expected value of the aggregate value of the portfolio. For each publication, please provide a concise explanation of the reliance placed on that publication in the development of the disclosed subject matter.

(16 December 2003 Office Action, page 1, line 6 through page 2, line 2).

The article below is the lecture notes published in 2000 based upon a 1998 lecture presented by the inventor at a financial conference. The information presented at the conference and contained in these conference notes was used in the research for the invention.

- Schellhorn, Henry and Kidani, Flora, "Variance Reduction Techniques for Large Scale Risk Management", Monte Carlo and Quasi Monte-Carlo Methods 1998, Springer 2000, specifically pages 420-1, and 426-429.

The following articles were presented in the IDS dated 29 October 2003 and are useful in understanding the above article. They are presented here with specific page numbers.

- Hull, John, "Options, Futures, and Other Derivatives", Prentice-Hall, NJ 1997, 4th Ed, Chapter 21.12, p. 580-591.
- Duffie, Darrell, "Dynamic Asset Pricing Theory", Princeton University Press, Princeton, NJ, 1996, 2<sup>nd</sup> Ed, p. 146-149. Page 147 is the most pertinent.

The Oracle® Risk Manager product, to the best of the knowledge of those identified under CFR §1.56(c) at the time the response was written, was used in the research for inventive process. The following document discusses the Oracle® Risk manager Product.

- Oracle® Risk Manager Reference Guide Release 4.0, March 1999, Part No. A68684-01, sections: Preface page xxxi, Chapter 2-Overview of the Process pages 2-1 through 2-6, Appendix D-Monte Carlo Analytics pages D-1 through D-34. Appendix D is the most pertinent information.

The Office Action further states:

(2) A working prototype of the invention that can be tested by the examiner. Is the invention currently available commercially? In response to this requirement, please provide the names of any products or services that have incorporated the claimed subject matter.

(16 December 2003 Office Action, page 3, lines 3-5).

To the best of the knowledge of those identified under CFR §1.56(c) at the time the response was written, the whereabouts of the prototype for the claimed invention are unknown, and therefore, the prototype is not readily available.

To the best of the knowledge of those identified under CFR §1.56(c) at the time the response was written, the claimed invention is not available in any commercial product.

The Office Action further states:

(3) The trade names and providers of any products or services in competition with the invention.

(16 December 2003 Office Action, page 3, lines 6-7).

To the best of the knowledge of those identified under CFR §1.56(c) at the time the response was written, there are no products or services currently available in competition with the claimed invention.

The Office Action further states:

(4) Identification of the true assignees of the current invention.

(16 December 2003 Office Action, page 3, line 8).

The assignee remains as executed on 21 February 2003, mailed 4 March 2003 and recorded at Reel 013797, Frame 0613 in the Office of Public Records on 11 March 2003 as follows:

Oracle International Corporation (OIC)  
500 Oracle Parkway  
Redwood Shores, California 94065


**CONCLUSION**

The applicant has met the information requirements of 37 CFR §1.105 and requests the consideration and allowance of the claimed invention. If the Examiner has any questions or comments, the Examiner is directed to contact the undersigned at the number listed below.

Respectfully submitted,

Bingham McCutchen LLP

Dated: April 9, 2004

By:   
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